BOX No. V 6

EBERHARD SCHNEIDER'S

MIROR VITAE

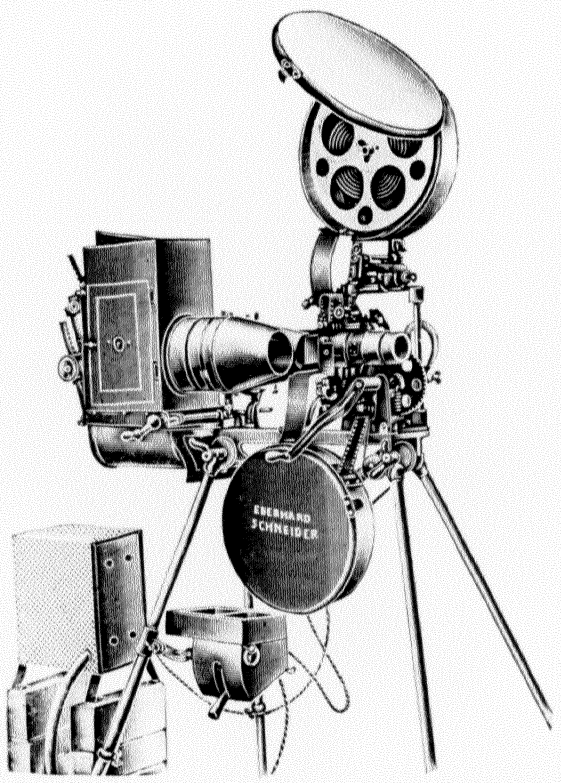
PATENTED

109 East 12th St., New York.

EBERHARD SCHNEIDER'S

MIROR VITAE

After several years of incessant labor and careful experimenting, we now place our new model of Cinematograph on the market. "The MIROR VITAE" is specially constructed to meet the requirements of the high class projection and thus supply the increasing demand for a machine of highest quality and workmanship.



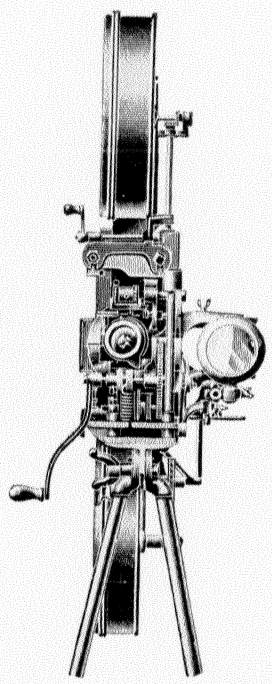
Complete Miror Vitae showing handy Operator Table with Switch attached, also our new Model 110—125 Volt Rheostat.

PREFACE

Until recent years, exhibitors were easily suited with the low grade machine, for in the earlier years of cinematograph exhibitions, the limited knowledge of machines deprived the majority of operators of the ability to discriminate between a good and a bad machine, while so far as the public was concerned the mere novelty of an animated picture was sufficient to satisfy them. This state of affairs naturally gave rise to machines of most inferior quality and workmanship. Miserable exhibitions continued to torture the public vision until the once popular animated picture exhibition failed to attract audiences, and it was feared that this mode of entertainment, so interesting and instructive might die out entirely. Then came many decided improvements in films and subjects and a revival quickly followed, so that each year promises a greater business than its predecessors. The exhibitors and the public have learned to study the animated picture and have become competent critics, unwilling to tolerate poorly operated entertainments, but appreciative of high class equipments and skillful operating.

The cheap miserable machines of a few years ago have quickly found their way to the scrap pile, but they have left behind them, countless disheartening failures, and as many valuable lessons, which all served to teach the exhibitor the cause of the numerous defects, the terrible flicker, the scratched film, the torn sprocket holes, the unsteady picture, the noise, worn gears and bearings, the difficult adjustments, the cutting of the star and pin wheels and scores of other problems, which operators of former years never understood, or stopped to solve, but now the exhibitor makes a careful study of the machine he is to buy, and makes a careful inspection of the many small but important points which combine to produce a perfect animated machine.

The "MIROR VITAE" is by no means an experiment, or even a new machine, earlier models of this machine have been in constant use for many years, but were reserved for our own use in exhibitions in and around New York City, but never before placed on the market, as we could not put out such a machine, and compete with the low price of the worthless outfits the public was formerly willing to accept.



Front View of the Miror Vitae.

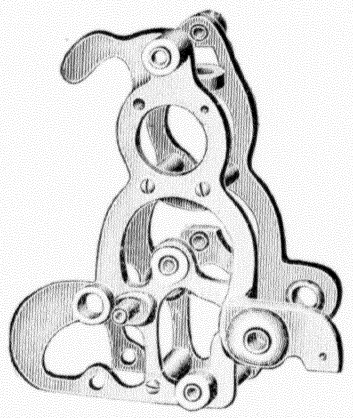
THE "MIROR VITAE"

After realizing the great demand for a high class machine, we decided to put the MIROR VITAE on the market last season, and our machine would have been ready, but we detected much inferior workmanship in our gears, the cutting of which we had intrusted to Gear Companies of good repute and who were supposed to be strictly reliable. All work which we had done by outside companies, we then quickly discarded, regardless of the heavy loss, for we were determined to spare no trouble or expense toward making an absolutely faultless machine. We then postponed the sale of the MIROR VITAE, a year and installed all of our own machinery, so that every part of the machine is made in our own factory, under our personal supervision.

THE SYSTEM IS A MOVING PICTURE—STEREOPTICON COMBINED.

Every part of the MIROR VITAE is strictly guaranteed, the material is the best that can be obtained, all parts carefully finished by hand, the most compact and light machine made, unsurpassed in strength. The simplicity of construction has never been equaled, the adjustments easy and convenient, entirely overcoming the most common faults of a motion picture machine. Improved fireproof magazines and two safety cut off shutters.

The entire machine, lamp house fire-proof magazines, take-up, etc., are built on a portable stand, heavy steel aluminum, perfectly rigid and supported by joint legs of triple extension steel tubing, which can be quickly adjusted to set up among chairs, church pews, balcony steps or foyer.



Rigid Steel Aluminum Frame of the
MIROR VITAE.

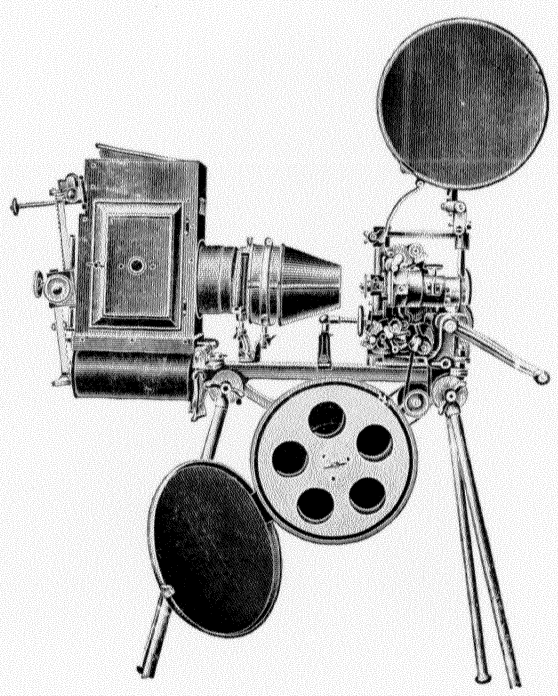
The machine head has a rigid steel aluminum frame on which all gearings are mounted. All bearings are made of bearing bronze, as hard as glass and built especially heavy and long, thus reducing the wear of bearings, shafts and spindles to a minimum, also causing the spindles and gears to run with greatest accuracy. All gearings are cut from hardened bronze and steel of finest quality and required to stand the most rigid tests.

The intermittent movement (the star wheel and pin wheel) has received our most careful attention, the importance of this most vital part of a motion picture machine cannot be over estimated, the pin-wheel and star wheels are cut by us from Stub steel, made unusually heavy, thus giving a large wearing surface, causing the parts to run with utmost precision, and stand an unlimited amount of hardest wear without cutting or getting out of adjustment.

The star wheel and star wheel shaft are also made of Stub steel and both are brazed together with silver. The star-wheel with shaft and intermittent sprocket are mounted in a Phosphor bronze bearing, of fully 2½ inch length, adjustable by eccentrics which operate from one screw and thus they work exactly together, overcoming the common fault of setting one higher or lower than the other.

The intermittent is a one pin movement and makes a quicker change than any machine made, requiring only 20% shutter and thus dispersing with the flicker entirely.

The framing or setting device is a new idea entirely, with an adjustment of 1½ pictures, and without moving the shutter from its fixed position, thus requiring a much smaller shutter and consequently that much less flicker. Operators will readily recognize this decided advantage, which is not to be found on any other machine. This framing device also allows the bearings and gears to remain in a fixed position which overcomes the usual grinding noise in the gears.



Full View A of the Miror Vitae

Only the extreme edges of the film come in contact with the film shute, sprocket, etc. in passing through the machine, therefore rendering it impossible to scratch either side of the film. The film is held in proper position on each sprocket by means of two rollers or idlers placed ½ inch apart, this holds the film snug against the rim of the sprocket. This is of vital importance, especially with the intermittent sprocket, where the film is apt to drop away from the sprocket slightly and thus receive a sharp stroke from the points of the sprocket teeth, instead, of their basis, which cuts out the corners of the sprocket holes. This is probably the most serious fault of the ordinary machines, and we are happy to state that the MIROR VITAE disperses with this danger entirely.

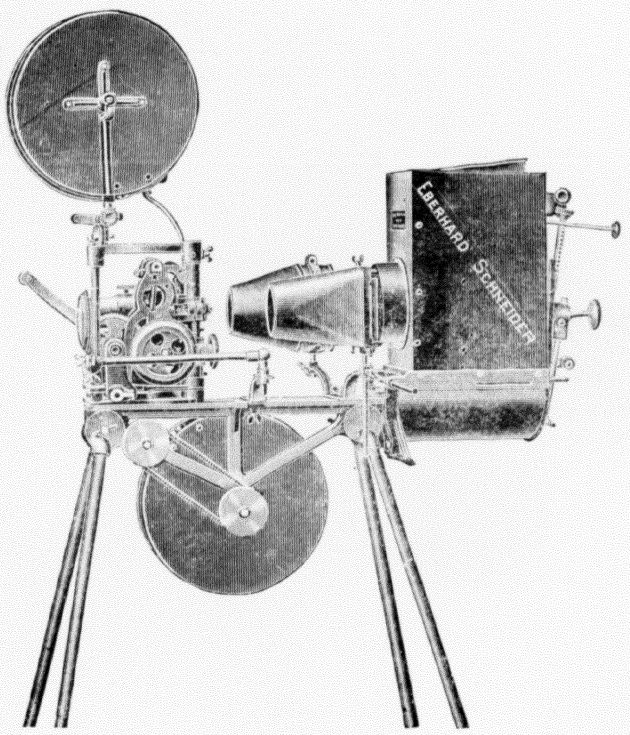
Moving picture and stereopticon lenses are of highest grade, the stereopticon lense is mounted in a ring with Universal Ball point, which enables the operator to set the stereopticon lense independently of the moving picture lense.

AUTOMATIC SHUTTER.

During the past few years various Automatic safety shutters have been attached to Motion picture machines, and have excited great interest among exhibitors, who, realizing the inestimable value of a perfect automatic shutter, were more than anxious to see a successful device produced, but in each instance these shutters failed to gain favor, owing to the many disadvantages involved.

These many deficiencies, of which operators are well aware, we have successfully overcome in our new friction gravity-shutter. In the first place we have practically eliminated all the complicated mechanism which other shutters have been encumbered with, as our shutter, including the tiny mechanism, which operates it, weighs only ½ ounce, thus dispersing with the usual extra burden, as well as the increased noise, which safety shutters have always added to machine. It does not act as a brake against the driving mechanism, when in motion, which is a fact on other machines using a heavy flap door on front of the aperture as a safety device.

The friction gravity shutter responds immediately to the slightest motion of the gears. It has been necessary with other shutters to run the machine at a very high speed before the safety shutter would raise, and likewise necessary to bring the machine almost to a stand still before the shutter would drop into place again.



Full View B of the Miror Vitae.

The take-up device possesses many new and novel features, operating on a double belt system, which insures its working perfectly when the reel is heavily loaded, and without too much tension on the film when the reel is nearly empty. More films have been torn and ruined through faulty take-ups than any other cause.

The fire-proof magazines are of neavy Russia iron and open out toward the right and next to the operator. The upper one is fitted with a crank and gearing to wind back the film, this is done without opening either top or bottom box.

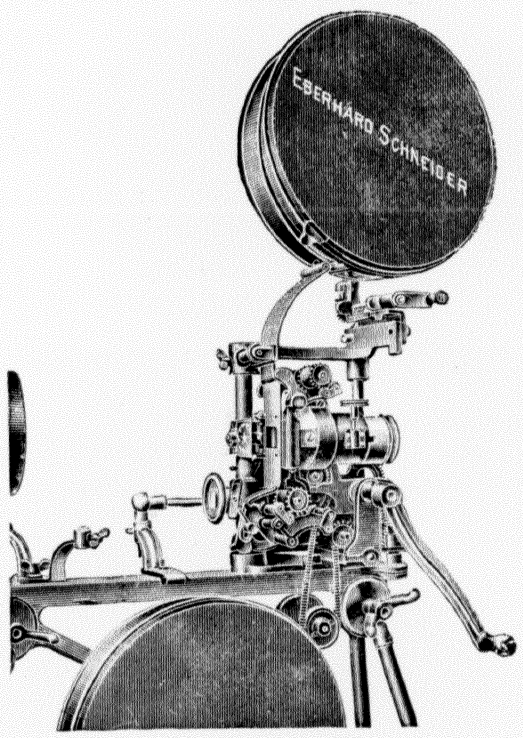
As an additional security against fire, we use a water cell between the condensing lenses and the film, which cool the rays of heat as they pass through so that the film may be fully exposed to light for some minutes without igniting the film.

The Lamp House is also an entirely new pattern, being built very high to accommodate carbons of 7 inch length, top and bottom. The ventilation is unsurpassed and an extra large door will be welcomed by operators as a long felt want, in order to adjust or change carbons easily.

A vertical sliding shutter works between the light and the condenser, located back of the condenser lenses, inside of the lamp house, and is operated by a lever from the back. This novel device saves condensers from breaking, also is very conveniently operated, as the operator does not have to shift his arm from the back to the front of the lamp house to shut off the light, as is usually done on other machines.

The shifting of the Lamp House from moving picture to stereopticon by hand has been entirely alleviated. A transport spindle with crank is a new novel method we applied. No more burning of Finger Tips.

Our new Electric Lamp has been constructed to meet all requirements of fire regulations and is fitted with every adjustment any exhibitor could possibly have use for. All the adjusting is done from the outside of the Lamp House, thus keeping the wheels cool and easy to reach, besides the usual adjustments for feeding the light there is one which raises and lowers the entire lamp without tilting the arc out of position, also one to swing from side to side, back and forth and so on. This lamp is the only one which is fitted with a double insulation throughout, so that as one insulation is burned out or short circuited the other would save the situation.



MIROR VITAE
Driving Mechanism, Automatic Shutter
and Magazines.

The MIROR VITAE is geared high, 32 pictures per crank revolution, so that a slow movement of the crank is only necessary to keep it at full speed, which makes it suitable for continuous exhibitions where the turning is so tiresome for the operator.

The MIROR VITAE can be operated either with Electricity or calcium gas light, just as the customer may wish, but only one kind of illumination will be furnished with the machine.

With a machine fitted for Electricity, we furnish our latest Quadruple insulated electric arc lamp, never before on the market, embodying all the features of a practical lamp. The lamp will take carbons seven inch top, and seven inch bottom, the upper arm feeds back and forth, and from side to side, the whole lamp works straight up and down and back and forth on rack and pinion, with out tilting carbons out of adjustment, one double pole switch 25 ampere, with fire-proof cover, asbestos covered connection wire, with soldered lugs, clamp to fasten switch to one of the machine legs. The RHEOSTAT is not included with the machine.

With a machine fitted for Calcium light, we furnish our new Monitor type Calcium Burner, with perfect mixing chamber, an extra tip, and all necessary adjustments to set the lime pencil, and two lengths of 4 feet each, best rubber connecting hose.

THE PRICE OF THE MIROR VITAE COMPLETE IS $250.00.

EXTRA PARTS.

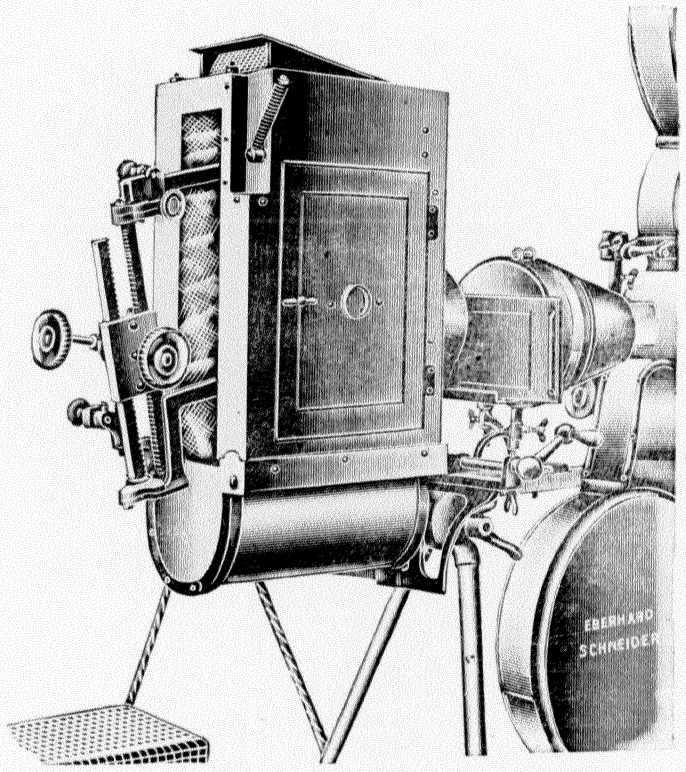
ELECTRIC RHEOSTATS.

Machines fitted for electricity will need a resistance Coil to control the flow of current, from the service wires into the arc lamp of the Picture machine. We have designed an entirely new apparatus of this kind, which complies strictly with the rules of the Fire Under Writers. Light in weight, small in size, wired with German Silver wire of standard resistance in Ohms. Made for all voltages from 110 to 500 volts, and of sufficient thickness to carry the Amperes required. They are nicely covered with perforated metal and protected binding posts. Varying in price from $10.00 to $45.00.

The Monitor Calcium burner is especially designed for the MIROR VITAE, a perfect model with all the adjustments required, highly nickle plated. Price, $15.00.

Calcium gas rubber connecting tubes of best rubber, heavy walls, corrogated, 5c. per foot.

CALCIUM TANK PRESSURE GAUGES $4.50.



MIROR VITAE
Lamp House with Transport Attachment.
Shutter Lever and quardruple insulated Arc Lamp
with all the Adjustments described.

CALCIUM LIGHT NEEDLE VALVES.

Machines fitted for calcium light will also need a resistance. A pair of valves, to control the flow of gas from the tanks into the calcium burner. Our needle valves are of rod brass, steel needles, very fine threaded, highly nickel plated, price per pair, $5.00.

Stereo. and Moving picture lenses, double achromatic, any focus, rack and pinion movement, arranged to exchange tubes, prices upon application.

Miror Vitae single system Stereopticon Lenses, 3 inch diameter, any focus, $1.50 each.

Picture machine cable, approved by the board of Fire Underwriters Double conductor, number 8, 15c. per foot, No. 10, 12c. per foot.

Asbestos covered lamp wire, stranded, No. 10, 10c. per foot, No. 8, 15c. per foot.

Electric carbons (Electra) imported from Germany, 5/8x7, (Miror Vitae size) package of 50—$2.00. Any other sizes kept in stock.

Calcium lime pencils, 7/8x2 1/4 dozen in a box price, $1.00.

Film mending machine. The only apparatus to mend films straight, price, 7.50. Film cement (very rapid), one ounce bottle, 25c.; 4 oz. bottle, 90c. Film cleaning extract, box, 25c. Black lantern slide opaque, 25c. per bottle.

Miror Vitae Mechanism Carrying case-fibre riveted, leather corners, strap, lock and key, size 5x7x11, price, $7.50—Miror Vitae-Fibre trunks witih cushioned compartments—prices on application.

Film Reel Boxes red fibre for 1000 foot reel, price, $1.00

Slide boxes all sizes film reel, to hold 1,000 foot, $1.00.

Large stock of moving picture films always on hand ask for list, Also for rental; complete stock of lantern slides, song slides, Nickelodeon Announcement slides and Advertisement slides for all trades (ask for special lists.) Slides made to order, from photo or print, plain, 50.; colored, 75c. and $1.00. Lecture work especially. Calcium Gasmaking outfits, the only light for the traveller—ask for list.

Most complete and scientifically equipped work and repair shop in optic, mechanic and electricity, experimenting, special machinery, lens grinding, planing, milling, gear and rack cutting, electroplating and galvanoplastic.

Laboratory for chronographic Photography,—perforating, printing and developing of moving picture films for the trade.

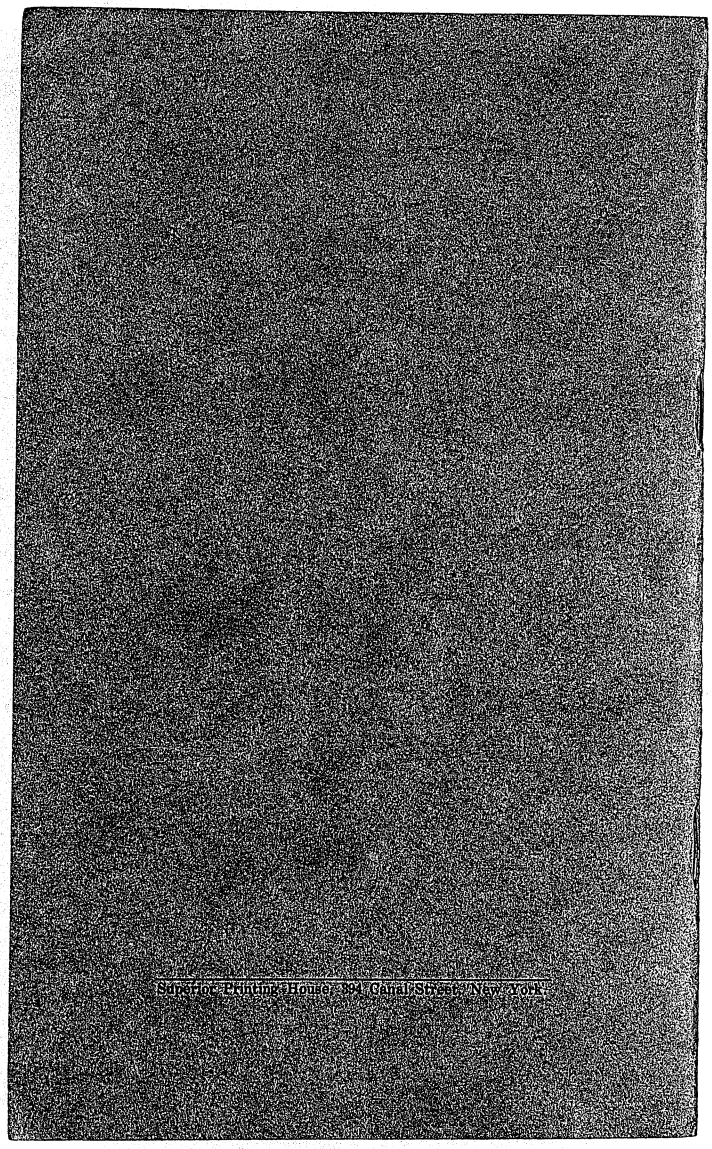
HANDY OPERATOR'S TABLE.

This is another novel device that will be greatly appreciated. It can be clamped to one of the machine legs, leveled by ball joint, holding a small platform with box of two compartments, for song sets, announcement slides, etc. A switch can also be attached underneath this table. All parts are made of aluminum. Price, $7.50.

Renewal parts for every part of the machine can be obtained.

Manufacturer and stock house of everything pertaining to the trade.

MIROR VITAE STEREOSCOPES.—Rosewood, matte finished aluminum hood, velvet rim, French lenses, with 15 stereoscopic pictures of the Miror Vitae, showing all the principal parts of the machine in plastic detail. Full set, $1.50. Just half of our cost. Get this set before you buy the machine.


Spectator Printing House, 284 Canal Street, New York.